

HP StorageWorks

Power Supply Replacement Instructions



These instructions apply to the MSA1500 cs, MSA20, and EVA 4000/6000/8000 products. The part may also be used in other HP products. Please refer to documentation for your specific product for detailed replacement instructions.



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Warranty Information

If the product in which this part is being replaced is still under HP warranty, then the replacement part(s) referred to in these Replacement Instructions is provided under the terms and conditions of the Hewlett-Packard Company Limited Warranty for that product. A copy of this Limited Warranty may be viewed at: <http://h18006.www1.hp.com/products/storageworks/warranty.html>

If this is a trade sale part (product out of warranty), then the replacement part(s) referred to in these Replacement Instructions is provided under HP's express limited warranty statement, which may be viewed at: http://customerops.corp.hp.com/1sw/pdm_om/warranty_support/policies/2330100.doc

The replacement part takes on either the Limited Warranty Period of the part being replaced or a ninety-day period that begins upon installation of the replacement part, whichever is greater.

The only warranty for this replacement product is as noted above. Nothing in these replacement instructions should be construed as constituting an additional warranty. The information provided in these replacement instructions is provided "AS IS" and HP is not liable for technical or editorial errors or omissions contained herein.

1 About This Document

This document describes the procedure for replacing the power supply used in MSA 1500 cs and MSA20 products, and EVA 4000/6000/8000 products.



NOTE:

Because this component is used in several products, the drawings may reflect a different enclosure than the one you have. The removal and replacement procedure is the same for each product.

2 Before you begin

Observe the following precautions when replacing a power supply.



CAUTION:

Removing a power supply significantly changes the air flow within the enclosure. Both power supplies must be installed for the enclosure to cool properly. If a power supply fails, leave it in place in the enclosure until a new power supply is available to install.

If cabling is obstructing access to the power supply, carefully move the cables out of the way to avoid loosening any connections.

Parts can be damaged by electrostatic discharge. Use proper anti-static protection. Refer to the documentation that shipped with your system for additional information.

Have a copy of the product User Guide available for reference. You can download a copy of the User Guide from the product support page on the HP web site.

3 Verifying component failure

Before replacing a power supply, use the following methods to verify the component failure.

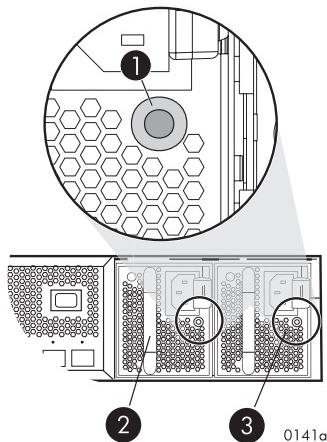
EVA Products



CAUTION:

If Command View EVA does not present a status consistent with that of the power supply status indicator, or if Command View or the System Event Analyzer indicates multiple hardware failures, contact HP support for assistance. The HP support web site is located at <http://www.hp.com/support>

- Analyze any failure messages you may have received from system monitoring (System Event Analyzer).
- Check status using Command View EVA:
 1. In the Navigation pane, select **Storage system > Hardware > Rack > Controller enclosure > Controller**
 2. In the Content pane, select the **Enclosure** tab. The status is displayed in the **Power System** field. The status should be Failed
 3. To help identify the correct enclosure, click **Locate > Locate On** to display **Locate Confirmed** on the controller operator control panel (OCP). The blue Unit ID indicator will also turn on.
- Check the power supply status indicator. See [Figure 1](#). It should be amber or off.



1. Status indicator
2. Power supply 0 (EVA), 1 (MSA)
3. Power supply 1 (EVA), 2 (MSA)

Figure 1 Power supply status indicator

MSA products

- Check the power supply status indicator. See [Figure 1](#). It should be amber or off.
- On an MSA 1500 cs, check the controller LCD for the following message:
409 STORAGE BOX #<n> POWER SUPPLY FAILED
- On an MSA20, check the enclosure fault indicator. See [Figure 2](#). It should be amber.

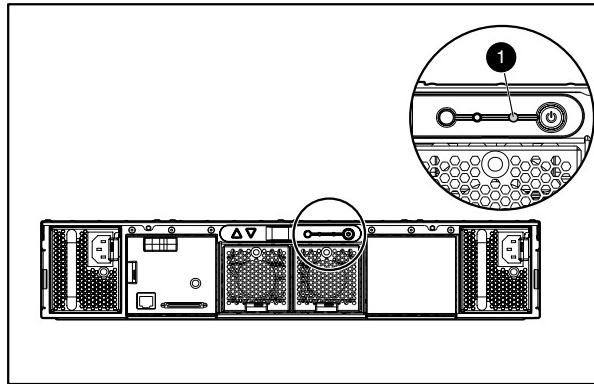


Figure 2 MSA20 enclosure fault indicator

4 Removing a power supply

1. Disconnect the AC power cord from the power supply.
2. While moving the wine-colored latch to the left (1, [Figure 3](#)), grasp the handle and pull the power supply out of the enclosure (2).

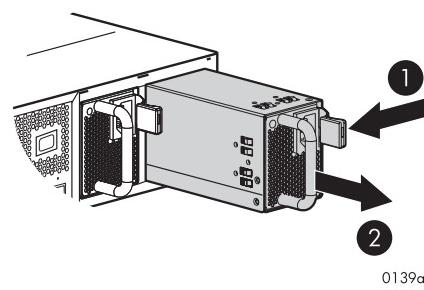
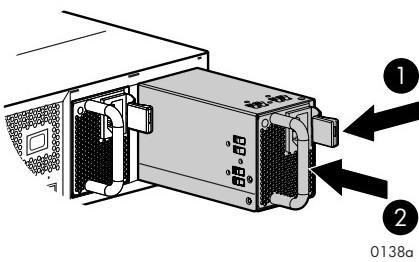


Figure 3 Removing a power supply

5 Installing a power supply

1. Remove any connector protector that may be covering the AC power connector on the new power supply.
2. While pressing in on the mounting latch (1, [Figure 4](#)), slide the power supply into the enclosure until it is fully seated (2).
3. Connect the AC power cord to the power supply.



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Figure 4 Installing a power supply

6 Verifying proper operation

After replacing the power supply, check the following to verify that the component is operating properly:

- Check the power supply status indicator. It should be green.
- On an MSA20, ensure the enclosure fault indicator is off.
- On an MSA 1500 cs, the controller LCD should display the following message:
408 STORAGE BOX #<n> POWER SUPPLY OK
- On an EVA product, from Command View EVA
 - Navigate back to the component and check the status. It should be
 - Turn off the locate function by clicking **Locate > Locate Off**

7 Returning the failed component

Please follow the return instructions provided with the new component.